



MLDS CENTER

Maryland Longitudinal
Data System

Better Data • Informed Choices • Improved Results

Substantive Changes to
the

MLDS Data Inventory

September 2019

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Overview

The Maryland Longitudinal Data System (MLDS) is Maryland's central repository for comprehensive data from all levels of education and into the State's workforce. The MLDS Governing Board is required to create an inventory of individual student and workforce data proposed to be maintained in the system (Md. Ed. Art. §24-704(g)(6)). Additionally, the data inventory serves to inform the public about the contents of the MLDS database. This document provides a comprehensive summary of data elements proposed to be maintained, or removed from the System.

Process

The development of the Data Inventory is a collaborative process between DLLR, MSDE and MHEC, and the MLDS Data Governance Advisory Board. The MLDS Data Governance Advisory Board annually reviews the Data Inventory and identifies what data elements to propose for inclusion or remove from the System. All data must be relevant to answering one of the questions in the [Research Agenda](#) or generally identified as necessary for evaluating federal or State supported education programs. Data elements identified for inclusion or removal in the System are presented to the Governing Board for approval. Once approved, the requirements are developed with the agency and included in the data collection calendar.

Accessing the Data Inventory

As of December 2016, the MLDS Data Inventory is available online through the MLDS Center [website](#). This change allows the inventory to be more dynamic, by presenting the inventory in a way that may be organized according to the user's needs.

Changes to the Data Inventory

As a result of publishing the Data Inventory in a dynamic format, this document will only include substantive changes for each of the domains. Substantive changes are inclusions or removals of data elements in the Data Inventory.

Administrative changes are made annually and include the following:

- Clarification to the database in which the data element is maintained (i.e. ODS or MDM)
- Corrections and consistency in the CEDS Global ID for the Data Element
- Consistency in reporting the Element Name

Student Data

State law (Education Article §24-701, Annotated Code of Maryland) defines student data to mean data relating to student performance. The law also lists specific data elements not considered student data. As of the 2019 legislative session, House Bill 704 authorizes the Center to include discipline data and juvenile delinquency records. By removing the restriction on these specific data elements, student data now includes:

- State and national assessments;
- Course-taking and completion;

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- Grade point average;
- Remediation;
- Retention;
- Degree, diploma, or credential attainment;
- Enrollment;
- Demographic data;
- Juvenile delinquency records; and
- Elementary and secondary school disciplinary records.

The law continues to prohibit the Center from collecting data on students from criminal and Child In Need of Assistance records and medical and health records.

Workforce Data

State law (Education Article §24-701, Annotated Code of Maryland) defines workforce data as data relating to:

- Employment status;
- Wage information;
- Geographic location of employment; and
- Employer information.

Understanding the Fields in the Data Inventory

Approval Status – identifies the Governing Board approval status for the Domain, Entity, or Element.

- **Approved** – The element had been approved for inclusion in the MLDS by the MLDS Governing Board.
- **Proposed** – The element has been proposed for inclusion and is pending review by the MLDS Governing Board for collection by the MLDS Center.

Approval Date – date that the Governing Board approved the inclusion of the Data Element to be maintained in the System.

Availability – the earliest date that the Date Element is available to the MLDS.

CEDS Global ID – is the Common Education Data Standards unique identifier for the data element. Data elements in the MLDS database are mapped to the [Common Education Data Standards](#) (CEDS Version 6.0) when possible. CEDS represents a national, collaborative effort to develop voluntary, common data standards across the P-20W pipeline and provides nationally recognized naming conventions and definitions. Where data cannot be mapped to CEDS 6.0 standards, alternate domain, entity, and element names are provided, if applicable.

Database – an indication of the location of the data element within the MLDS. Data elements are either in the Operational Data Store (ODS) or the Master Data Management (MDM) database. The MDM database contains confidential and sensitive information on student and workers and is restricted to specified authorized staff of the MLDS Center. The ODS contains sensitive, de-identified information on students and workers and is restricted to authorized staff of the MLDS Center.

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Description – a description of the Data Element that provides additional information related to how the data element is collected, used, or defined in the System.

Domain – Domains indicate the sectors that are part of the MLDS. The Data Inventory contains both internal and external domains. Internal domains relate to the MLDS partner agencies that provide student and workforce data directly to the MLDS through a memorandum of understanding. MLDS partners include: Maryland State Department of Education (MSDE), Maryland Higher Education Commission (MHEC), and Maryland Department of Labor, Licensing and Regulation (DLLR). External domains include publicly available data or data provided through a memorandum of understanding with the external entity. Data from external sources are used to enhance the data received from internal sources, and provide additional context to the data in the System.

Internal domains include:

- Workforce,
- Postsecondary,
- PK12.

External Domains include:

- U.S. Census Bureau (CENSUS), and
- Motor Vehicle Administration (MVA).

Element Name – describes the data element provided to the MLDS. These are attributes of the Entity. This may be the name used by the partner agency, or a standard name used by CEDS.

Entity – Entities represent persons, places, events, objects or concepts about which the data is collected or shared. The Entities in the MLDS Data Inventory are:

- | | | |
|----------------------|---------------------|------------------------|
| • Address | • Institutional | • NA |
| • AE Student | • Characteristics | • PS Institution |
| • Assessments | • K12 Class/Section | • PS Student |
| • Authentication and | • K12 Course | • Quarterly Employment |
| Authorization | • K12 Organizations | • Tuition |
| • EL Child | • K12 School | • W Employer |
| • EL Organization | • K12 Staff | • W Person |
| • EL Staff | • K12 Student | |
| • Financial Aid | • LEA | |

Load Status – provides an indication of the status of the data element within the MLDS.

- **Active** data elements are loaded into the System and are currently in use.
- **Inactive** data elements were approved for inclusion in the MLDS by the Governing Board, but are not currently loaded into the MLDS or have not yet been provided to the MLDS from the source agency.
- **Removed** data elements that have been eliminated from the MLDS even though they were approved by the Governing Board for use.
- **Obsolete** data elements were approved for collection but are no longer available from the source. Data remains active in the System for the years the data element was available.

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Source – indicates the origin of the data for the specific Domain. This may be the name of the data collection administered by the agency or the table name. The source is specific to the agency providing the data to the MLDS.

PK12

PK12 domain data is provided to the MLDS from the Maryland State Department of Education (MSDE).

Proposed Sources

Discipline

House Bill 704 - Student Data and Governing Board was passed in the 2019 legislative session and removes the restriction against including elementary and secondary student discipline data records as “student data” in the MLDS. The MLDS Center and MSDE staff discussed MSDE’s Discipline collection and what data elements were available. The data elements for inclusion in the Data Inventory are detailed in the table below.

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000249	K12 Student	504 Indicator	Proposed	2008	Discipline	ODS
000218	K12 Student	Disability Code	Proposed	2008	Discipline	ODS
000509	K12 Student	Offense Code	Proposed	2008	Discipline	ODS
000502	K12 Student	Date of Offense	Proposed	2008	Discipline	ODS
000488	K12 Student	Disposition Code	Proposed	2008	Discipline	ODS
000511	K12 Student	Length of Removal	Proposed	2008	Discipline	ODS
000545	K12 Student	Physical Injury	Proposed	2008	Discipline	ODS
000578	K12 Student	Type of Educational Services Provided	Proposed	2008	Discipline	ODS

Gifted and Talented

MSDE added a Gifted and Talented Student Indicator to the End of Year Attendance data collection in order to comply with accountability requirements. Beginning with the 2020-2021 academic year, the following data element will be provided from MSDE:

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000122	K12 Student	Gifted and Talented Student Indicator	Proposed	2008	Attendance	ODS

Proposed Removals - None

There are no removals of PK12 data elements at this time.

Workforce

Workforce domain data is provided to the MLDS from the Department of Labor (DoL).

Proposed Sources

LACES

LACES (Literacy, Adult Education, and Community Education System) from the Division of Workforce Development and Adult Learning (DWDAL) captures Adult Education data that is required for reporting to the Federal government pursuant to the Adult Education and Family Literacy Services (AEFLS) grant. MLDS Center staff worked with DWDAL staff to identify data elements needed for identity resolution purposes and data elements deemed useful for research purposes. The data elements for inclusion in the Data Inventory are detailed in the table below and categorized by content.

Demographics

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000115	AE Student	First Name	Proposed	2008	LACES	MDM
000172	AE Student	Last Name	Proposed	2008	LACES	MDM
000184	AE Student	Middle Name	Proposed	2008	LACES	MDM
000259	AE Student	Social Security Number (SSN)	Proposed	2008	LACES	MDM
000033	AE Student	Birth Date	Proposed	2008	LACES	MDM
001071	AE Student	Student ID	Proposed	2008	LACES	MDM
000269	AE Student	Home Address	Proposed	2008	LACES	MDM
000040	AE Student	Home City	Proposed	2008	LACES	ODS
000214	AE Student	Home Zip Code	Proposed	2008	LACES	MDM
000190	AE Student	Home County	Proposed	2008	LACES	ODS
000255	AE Student	Gender	Proposed	2008	LACES	ODS
000144	AE Student	Hispanic/Latino Ethnicity	Proposed	2008	LACES	ODS
000016	AE Student	American Indian/Alaskan Native	Proposed	2008	LACES	ODS
000020	AE Student	Asian	Proposed	2008	LACES	ODS
000034	AE Student	Black or African American	Proposed	2008	LACES	ODS
000192	AE Student	Native Hawaiian or Other Pacific Islander	Proposed	2008	LACES	ODS
000301	AE Student	White	Proposed	2008	LACES	ODS
NA	AE Student	Age	Proposed	2008	LACES	ODS

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000051	AE Student	Birthplace	Proposed	2008	LACES	ODS
000426	AE Student	City of Birth	Proposed	2008	LACES	ODS
NA	AE Student	Born outside US	Proposed	2008	LACES	ODS
000051	AE Student	Country of Birth	Proposed	2008	LACES	ODS
000291	AE Student	Immigrant	Proposed	2008	LACES	ODS
000299	AE Student	US Citizen	Proposed	2008	LACES	ODS
000196	AE Student	F1 Visa	Proposed	2008	LACES	ODS
000050	AE Student	Country of Citizenship	Proposed	2008	LACES	ODS
000149	AE Student	Barrier - Homeless	Proposed	2008	LACES	ODS
000777	AE Student	Barrier - Public Assistance	Proposed	2008	LACES	ODS
000776	AE Student	Barrier - Dislocated Worker	Proposed	2008	LACES	ODS
000084	AE Student	Barrier - Displaced Homemaker	Proposed	2008	LACES	ODS
000189	AE Student	Barrier - Migrant Worker	Proposed	2008	LACES	ODS
000580	AE Student	Barrier - Single Parent or Guardian	Proposed	2008	LACES	ODS
NA	AE Student	Barrier - At Risk	Proposed	2008	LACES	ODS
NA	AE Student	Barrier - Abuse	Proposed	2008	LACES	ODS
NA	AE Student	Barrier - Correctional	Proposed	2008	LACES	ODS
NA	AE Student	Barrier - Institutional	Proposed	2008	LACES	ODS
000141	AE Student	Parents' Highest Education Completed	Proposed	2008	LACES	ODS
001578	AE Student	Military Service Experience	Proposed	2008	LACES	ODS
000332	AE Student	Family Income Range	Proposed	2008	LACES	ODS
001415	AE Student	Number of Dependents	Proposed	2008	LACES	ODS
NA	AE Student	Minor with Adult Status	Proposed	2008	LACES	ODS

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Class/Course Information

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000324	AE Student	Match/Enroll Date	Proposed	2008	LACES	ODS
000054	AE Student	[Instructional] Start Date	Proposed	2008	LACES	ODS
000059	AE Student	[Instructional] End Date	Proposed	2008	LACES	ODS
000055	AE Student	Enrollment ID	Proposed	2008	LACES	ODS
001655	AE Student	Max Enroll	Proposed	2008	LACES	ODS
000978	AE Student	Class ID	Proposed	2008	LACES	ODS
000254	AE Student	Term	Proposed	2008	LACES	ODS
001314	AE Student	Course Number	Proposed	2008	LACES	ODS
000067	AE Student	Class/Group/Workshop Title/Name	Proposed	2008	LACES	ODS
NA	AE Student	Class Status	Proposed	2008	LACES	ODS
000054	AE Student	Class Start Date	Proposed	2008	LACES	ODS
000059	AE Student	Class End Date	Proposed	2008	LACES	ODS
001077	AE Student	Class Program	Proposed	2008	LACES	ODS
000622	AE Student	Instructor Type	Proposed	2008	LACES	ODS
000647	AE Student	Instructor Name	Proposed	2008	LACES	ODS
001748	AE Student	Min Required Days	Proposed	2008	LACES	ODS
001746	AE Student	Max Required Days	Proposed	2008	LACES	ODS
000521	AE Student	Days	Proposed	2008	LACES	ODS
000519	AE Student	Times	Proposed	2008	LACES	ODS
000519	AE Student	Weekly Time	Proposed	2008	LACES	ODS
001309	AE Student	Location	Proposed	2008	LACES	ODS
000066	AE Student	Class Instructional Area	Proposed	2008	LACES	ODS
000448	AE Student	Class Language of Instruction	Proposed	2008	LACES	ODS

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000976	AE Student	Class Completion	Proposed	2008	LACES	ODS
000782	AE Student	Hours Type	Proposed	2008	LACES	ODS
NA	AE Student	Hours Present	Proposed	2008	LACES	ODS
NA	AE Student	Hours Absent	Proposed	2008	LACES	ODS
000076	AE Student	Late	Proposed	2008	LACES	ODS

Assessments

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
000962	AE Student	Assessed Date	Proposed	2008	LACES	ODS
000466	AE Student	Instrument	Proposed	2008	LACES	ODS
000366	AE Student	Form	Proposed	2008	LACES	ODS
NA	AE Student	Level	Proposed	2008	LACES	ODS
000578	AE Student	Subtest	Proposed	2008	LACES	ODS
000369	AE Student	Scaled Score	Proposed	2008	LACES	ODS
000369	AE Student	Scaled Gain	Proposed	2008	LACES	ODS
000369	AE Student	SPL/GLE	Proposed	2008	LACES	ODS
000369	AE Student	SPL/GLE Gain	Proposed	2008	LACES	ODS
000245	AE Student	Raw Score	Proposed	2008	LACES	ODS
000779	AE Student	Assessed Level	Proposed	2008	LACES	ODS
NA	AE Student	Assessment Status in Subject Area	Proposed	2008	LACES	ODS
000273	AE Student	ESL Student	Proposed	2008	LACES	ODS
000369	AE Student	Scaled Gain in Subject	Proposed	2008	LACES	ODS
000362	AE Student	Current FY Instructional Hours	Proposed	2008	LACES	ODS
NA	AE Student	Instructional Hours Since Last Assessment in Subject Area	Proposed	2008	LACES	ODS
NA	AE Student	Instructional Hours Between Pre and Post in Subject Area	Proposed	2008	LACES	ODS

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NA	AE Student	Exempt from Assessment	Proposed	2008	LACES	ODS
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Outcomes

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
NA	AE Student	Lifetime Hours	Proposed	2008	LACES	ODS
000711	AE Student	Cohort	Proposed	2008	LACES	ODS
001703	AE Student	Goal Status	Proposed	2008	LACES	ODS
001079	AE Student	Goal	Proposed	2008	LACES	ODS
NA	AE Student	Type	Proposed	2008	LACES	ODS
NA	AE Student	Date Earned	Proposed	2008	LACES	ODS
NA	AE Student	Name of Diploma/Credential	Proposed	2008	LACES	ODS
000138	AE Student	Description/Number	Proposed	2008	LACES	ODS
000081	AE Student	Person's Name Displayed on Diploma/Credential	Proposed	2008	LACES	ODS
000003	AE Student	Completed Requirements	Proposed	2008	LACES	ODS
000625	AE Student	By Exam Only	Proposed	2008	LACES	ODS
NA	AE Student	Diploma Record Creation Date	Proposed	2008	LACES	ODS

Intake/Enrollment

CEDS Global ID	Entity	Element Name	Approval Status	Availability	Source	Database
001077	AE Student	Program Type	Proposed	2008	LACES	ODS
000324	AE Student	Intake Date	Proposed	2008	LACES	ODS
000107	AE Student	Date Left	Proposed	2008	LACES	ODS
001343	AE Student	Employment Status Upon Entry	Proposed	2008	LACES	ODS
000141	AE Student	Highest Education Level Completed on Entry	Proposed	2008	LACES	ODS

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NA	AE Student	Highest Education Level Completed on Entry Location	Proposed	2008	LACES	ODS
000779	AE Student	Current Level	Proposed	2008	LACES	ODS
000779	AE Student	Entry Level	Proposed	2008	LACES	ODS
NA	AE Student	Overall Status	Proposed	2008	LACES	ODS
001161	AE Student	Enrollment Type	Proposed	2008	LACES	ODS

Proposed Removals - None

There are no removals of workforce data elements at this time.

Postsecondary

Postsecondary domain data is provided to the MLDS from the Maryland Higher Education Commission (MHEC).

Proposed Sources - None

There are no proposed postsecondary data elements at this time.

Proposed Removals - None

There are no removals of postsecondary data elements at this time.

External Domains

External domain data is acquired by the MLDS from:

- U.S. Census Bureau (Census); and
- Maryland Department of Transportation, Motor Vehicle Administration (MVA).

Proposed Sources - None

There are no proposed external data sources at this time.

Supporting Information For more information on the MLDS Center please visit the MLDS Center website at mldscenter.maryland.gov.

For additional information on CEDS 6.0 Data Standards visit ceds.ed.gov.

[CEDS 101](#) describes what the CEDS standard is, why it is needed, and the parts of the CEDS standard.

Contributors and Change History

Date	Description/Reason for change	Authors/Contributors	Version
07/25/2012	Initial Draft	John Bruns	1.0
09/1/2012	Revision of content, addition of tables	John Bruns, Rob London	1.0
10/2/2013	Revision of content, addition of person, organization data elements; mapping to CEDS workforce elements added	John Bruns	2.0
10/29/2013	Added CEDS 4.0 details and data elements planned for the MLDS Master Data Management system	John Bruns	2.0
10/31/2013	Review and update	Chandra Haislet	2.0
11/1/2013	Updates to sections 2.0-5.0	Ross Goldstein	2.1
11/1/2013	Inactive CEDS 4.0 elements removed from Appendix B	John Bruns	2.2
11/15/2013	Active and Approved elements added to Appendix B and C; reserved elements removed	John Bruns	2.3
11/20/2013	Removed Appendices related to elements by policy question and system source; added active and Approved elements; denoted elements not mapped to CEDS 4.0	John Bruns	2.4
11/25/2013	Defined Approved elements as those approved by agencies for submission; removed Approved elements not approved	John Bruns	2.5
12/13/2013	All "Approved" data elements in Version 2.5 marked as active following MLDS Board approval	John Bruns	2.6
1/4/2014	Initial Draft of CEDS Elements	John Bruns (MSDE)	3.1
1/31/2014	Research Request of CEDS Elements	Mike Woolley (UMB)	3.1
2/28/2014	Availability of Data Alignment – K12	Janice Johnson (MSDE)	3.2
2/28/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.2
2/28/2014	Availability of Data Alignment – Postsecondary	Andrew Nichols (MHEC)	3.2
3/13/2014	Approved Items for Inventory	Chandra Haislet (MLDS Center)	3.3
5/28/2014	Availability of Data Alignment – Postsecondary	Jon Enriquez (MHEC)	3.4
6/2/2014	Approved Items for Inventory (Data Gab)	Chandra Haislet (MLDS Center)	3.5
6/6/2014	Availability of Data Alignment – Early Learning	Phil Koshkin (ECE)	3.6
6/6/2014	Additional Postsecondary Data	Jon Enriquez (MHEC)	3.7
6/9/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.8
12/8/2014	Availability of Data Alignment – Governing Board Meeting 12/16/2014	Laia Tideman (MLDS Center)	4.0
12/18/2014	Proposed Data Elements Approved by the Governing Board 12/16/2014	Laia Tideman (MLDS Center)	4.1

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Date	Description/Reason for change	Authors/Contributors	Version
11/10/15	Inclusion of Data Elements approved in previous versions (MHEC and DLLR) Inclusion of MVA Data Elements for approval by the MLDS Governing Board	Laia Tiderman (MLDS Center)	4.2
12/8/2015	Revisions by MHEC to Postsecondary Data Elements	Parris Jackson	4.3
12/9/2015	Final Revisions prior to presentation at the MLDS Governing Board	Laia Tiderman	4.5
12/15/2015	Final with approval from Governing Board	Laia Tiderman	4.5
10/13/2015	Revisions for Data GAB 10/19/2016	Laia Tiderman	4.7
11/1/2016	Published Data Inventory on MLDS Website Revised document to include substantive changes Included definitions for all fields included in online Data Inventory	Laia Tiderman	5.0
11/21/2016	Changes to proposed workforce sources and elements	Laia Tiderman	5.1
12/2/2016	Updates to <i>Overview</i> , inclusion of <i>Process, Student Data</i> and <i>Workforce Data</i> definitions, updates to <i>Understanding the Fields</i> in the Data Inventory	Laia Tiderman	5.2
5/16/2017	Proposed and Removed data elements for 2017 June Governing Board Meeting	Laia Tiderman	6.0
5/24/2018	Proposed removal of IPEDS Data and Inclusion of Publicly Available Aggregate Data; Annual updates for 2018 June Governing Board Meeting	Laia Tiderman	7.0
6/14/2018	Changes requested during 2018 June Governing Board Meeting	Laia Tiderman	7.5
11/29/2018	Additions to PK12 data in alignment with changes to data collections made by MSDE	Laia Tiderman	8.0
05/21/2019	Additions to Workforce data due to the new Apprenticeship Program data collection from DLLR; Annual updates for 2019 June Governing Board Meeting	Molly Abend	9.0
09/03/2019	Additions to PK12 data from Discipline data and Gifted and Talented Indicator. Workforce additions to LACES.	Molly Abend	9.1